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10-20-03

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U.S. DEPARTMENT OF COMMERCE  
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OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ian Robinson  
Frank Winter

2. Name and address of receiving party(ies)

Name: Northrop Grumman Corporation

Internal Address: \_\_\_\_\_

Street Address: 1840 Century Park East

City: Los Angeles State: CA Zip: \_\_\_\_\_

Additional name(s) & address(es) attached?  Yes  No

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 10/13/2003 and 10/10/2003

4. Application number(s) or patent number(s):

10/689275

If this document is being filed together with a new application, the execution date of the application is: 10/10/03; 10/13/03

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher P. Harris

Internal Address: Tarolli, Sundheim, Covell &

Tummino, LLP

Street Address: 526 Superior Avenue

1111 Leader Building

City: Cleveland State: Oh Zip: 44114-1400

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

Christopher P. Harris  
Name of Person Signing

*Christopher P. Harris*  
Signature

October 20, 2003  
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

17510 U.S. PTO  
10/689275



102003

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

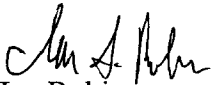
WHEREAS, NORTHROP GRUMMAN CORPORATION, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 1840 Century Park East, Los Angeles, California, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;


NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said NORTHROP GRUMMAN CORPORATION, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said NORTHROP GRUMMAN CORPORATION, as assignee of my entire right, title and interest.

I also hereby sell and assign to NORTHROP GRUMMAN CORPORATION, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said NORTHROP GRUMMAN CORPORATION, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said NORTHROP GRUMMAN CORPORATION, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE OF INVENTION	<b><u>SYSTEMS AND METHODS FOR SIGNAL CONVERSION</u></b>
SIGNATURE OF INVENTOR AND NAME	 Ian Robinson
DATE	October 13, 2003
RESIDENCE (CITY AND STATE)	Venice, CA 90291
DATE APPLICATION EXECUTED	October 13, 2003

TITLE OF INVENTION	<b><u>SYSTEMS AND METHODS FOR SIGNAL CONVERSION</u></b>
SIGNATURE OF INVENTOR AND NAME	 Frank Winter
DATE	10/10/03
RESIDENCE (CITY AND STATE)	San Diego, CA 92130
DATE APPLICATION EXECUTED	10/10/03